

AMENDMENTS TO THE CLAIMS

Please cancel claims 5-10 and 24 without prejudice to subsequent renewal or future prosecution. Please amend claim 1 and add new claims 25-29 as follows. The listing of claims below will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (currently amended): An isolated ~~or and~~ purified ~~mammalian~~ fatty-acid amide hydrolase (FAAH) encoded by the nucleotide sequence shown in SEQ ID No. 42
~~Isolated fatty-acid amide that hydrolyzes *cis*-9,10-octadecenoamide, anandamide, myristic amide, palmitic amide and stearic amide.~~

Claims 2-4 (canceled)

Claims 5-10 (canceled)

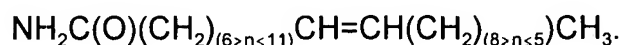
Claim 11 (withdrawn): A method for catalyzing a hydrolysis of a fatty-acid primary amide comprising the step of contacting the fatty-acid primary amide under reaction conditions with a catalytic amount of an isolated FAAH described in claim 1.

Claim 12 (withdrawn): The method for catalyzing a hydrolysis of a fatty-acid primary amide according to claim 11 wherein the fatty-acid primary amide includes an alkyl chain having an unsaturation.

Claim 13 (withdrawn): The method for catalyzing a hydrolysis of a fatty-acid primary amide according to claim 12 wherein the unsaturation is in an alkyl chain having a *cis*

configuration.

Claim 14 (withdrawn): The method for catalyzing a hydrolysis of a fatty-acid primary amide according to claim 11 wherein the fatty-acid primary amide is selected from the group consisting of *cis*-9,10-octadecenoamide, *cis*-8,9-octadecenoamide, *cis*-11,12-octadecenoamide, *cis*-13,14- docosenoamide, and a fatty-acid primary amide having the formula:

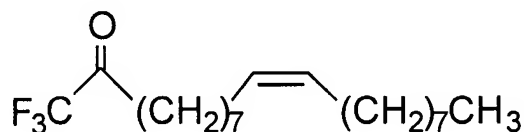


Claim 15 (withdrawn): A method for inhibiting an enzymatically catalyzed hydrolysis of a fatty-acid primary amide by the FAAH of claim 1, the method comprising the step of contacting said FAAH with an inhibitor of the FAAH.

Claim 16 (withdrawn): The method of claim 15 wherein said fatty-acid primary amide substrate is selected from the group consisting of *cis*-9,10-octadecenoamide, anandamide, myristic amide, palmitic amide and stearic amide.

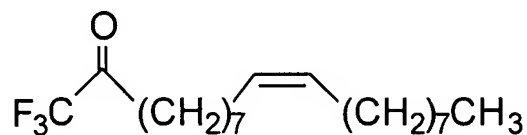
Claim 17 (withdrawn): The method according to claim 15 wherein said fatty-acid primary amide is *cis*-9,10-octadecenoamide.

Claim 18 (withdrawn): The method of claim 15 wherein said inhibitor of FAAH is selected from the group consisting of phenylmethylsulfonyl fluoride, HgCl_2 , and a trifluoroketone having the following structure:



Claims 19 and 20 (canceled)

Claim 21 (withdrawn): A trifluoroketone inhibitor of fatty-acid amide hydrolase represented by following structure:



Claim 22 (withdrawn): A nucleic acid molecule encoding a fatty-acid amide hydrolase protein, said nucleic acid molecule having a nucleotide sequence selected from the group consisting of SEQ ID NO 35, SEQ ID NO 39 and SEQ ID NO 42.

Claim 23 (withdrawn): A nucleic acid molecule encoding a portion of a fatty-acid amide hydrolase protein, said nucleic acid molecule having the nucleotide sequence shown in SEQ ID NO 1:1-783.

Claim 24 (canceled)

Claim 25 (new): An isolated or purified fatty-acid amide hydrolase (FAAH) encoded by the nucleotide sequence shown in SEQ ID No. 39.

Claim 26 (new): An isolated or purified fatty-acid amide hydrolase (FAAH) encoded by the nucleotide sequence shown in SEQ ID No. 35.

Claim 27 (new): An isolated or purified polynucleotide sequence which has the nucleotide sequence shown in SEQ ID No. 42.

Claim 28 (new): An isolated or purified polynucleotide sequence which has the

nucleotide sequence shown in SEQ ID No. 39.

Claim 29 (new): An isolated or purified polynucleotide sequence which has the nucleotide sequence shown in SEQ ID No. 35.